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	Application No.	Applicant(s)	
Notice of Allowability	09/416,618	PAASCH, ROBERT	
	Examiner	Art Unit	
	LAM S. NGUYEN	2853	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>amendment dated 01/20/2006</u> .			
2. The allowed claim(s) is/are 2,4,7-10,12-14,23 and 29-34.			
3. ☐ Acknowledgment is made of a claim for foreign priority unall All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 1. ☐ Copies of the certified copies of the priority documents have 2. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 1. ☐ A Substitutional Bureau (PCT Rule 17.2(a)). * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. Initted. Note the attached EXA es reason(s) why the oath or set be submitted. Son's Patent Drawing Review	n No I in this national stage application from the a reply complying with the requirements MINER'S AMENDMENT or NOTICE OF declaration is deficient.	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	ISIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. Interview Si Paper No./ 08), 7. Examiner's	formal Patent Application (PTO-152) Jummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance	

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended to cancel the following claims that have been withdrawn by the applicant from prosecution:

In the claims:

Claim 17: Canceled.

Claim 19: Canceled.

Claim 20: Canceled.

Claim 21: Canceled.

Claim 22: Canceled.

Claim 26: Canceled.

Claim 27: Canceled.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Regarding to claims 7, 9, 23: In light of the applicant's argument, the examiner admits that Mochuzuki et al.'s elements 12-1 and 12-2 are not sensors. As a result, the primary reasons for the indication of the allowability of the claims is the inclusions therein, in combination as currently claimed, of the limitation that a second pressure sensor configured to detect pressure waves in a second direction induced by the firing of said ink expulsion mechanism, wherein the

second direction is substantially orthogonal to the first direction (or said predetermined direction), or wherein said first sensor and said second sensor are provided in a substantially orthogonal arrangement on said substrate is neither disclosed nor taught by the cited prior art of record, alone or in combination.

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Regarding to claim 10: The primary reasons for the indication of the allowability of the claim is the inclusions therein, in combination as currently claimed, of the limitation that the sensor mechanism detects a pressure wave of a second non-zero magnitude different from said first non-zero magnitude indicative of when said nozzle is unclogged, wherein the first non-zero magnitude is in the range of 15% to 25% less than said second non-zero magnitude is neither disclosed nor taught by the cited prior art of record, alone or in combination.

Regarding to claim 29: The primary reasons for the indication of the allowability of the claim is the inclusions therein, in combination as currently claimed, of the limitation that wherein a pressure wave generated by a clogged nozzle has a time delay in the range of 15% to 20% less than a time delay generated by an unclogged nozzle is neither disclosed nor taught by the cited prior art of record, alone or in combination.

Claims 2, 4, 8, 12-14, and 30-34 are allowed because they depend directly/indirectly on claim 7, 10, or 29.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM S. NGUYEN whose telephone number is (571)272-2151. The examiner can normally be reached on 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, STEPHEN D. MEIER can be reached on (571)272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN 03/29/2006

HAI PHAM PRIMARY EXAMINER

Harchi Pham